Product data sheet Characteristics

ATV71HC40N4

variable speed drive ATV71 - 400kW-600HP - 480V - EMC filter-graphic terminal



Product availability: Stock - Normally stocked in distribution facility

Price*: 44870.40 USD



Main

Commercial Status	Commercialised
Range of product	Altivar 71
Product or component type	Variable speed drive
Product specific application	Complex, high-power machines
Component name	ATV71
Motor power kW	400 kWat 380480 V 3 phases 355 kWat 380480 V 3 phases
Motor power hp	600 hpat 380480 V 3 phases
Motor cable length	
[Us] rated supply voltage	380480 V (- 1510 %)
Phase	3 phases
Line current	709 Afor 380 V 3 phases 400 kW / 600 hp 637 Afor 380 V 3 phases 355 kW 568 Afor 480 V 3 phases 400 kW / 600 hp 512 Afor 480 V 3 phases 355 kW
EMC filter	Integrated
Assembly style	With heat sink
Variant	Reinforced version
Apparent power	466.6 kVAat 380 V 3 phases 400 kW / 600 hp 419.3 kVAat 380 V 3 phases 355 kW
Prospective line Isc	<= 50 kA, 3 phases
Nominal output current	759 Aat 2.5 kHz 460 V 3 phases / 600 hp 759 Aat 2.5 kHz 380 V 3 phases / 600 hp 671 Aat 2.5 kHz 460 V 3 phases 671 Aat 2.5 kHz 380 V 3 phases
Maximum transient current	1107 Afor 2 s 3 phases 355 kW 1006 Afor 60 s 3 phases 355 kW 1252 Afor 2 s 3 phases 400 kW / 600 hp 1138 Afor 60 s 3 phases 400 kW / 600 hp
Speed drive output frequency	0.1500 Hz
Nominal switching frequency	2.5 kHz
Switching frequency	2.58 kHz with derating factor 2.58 kHz adjustable
Asynchronous motor control profile	ENA (Energy adaptation) system for unbalanced loads Flux vector control (FVC) with sensor (current vector) Sensorless flux vector control (SFVC) (voltage or current vector) Voltage/Frequency ratio (2 or 5 points)
Type of polarization	No impedance Modbus

Complementary

Complementary	
Product destination	Asynchronous motors Synchronous motors
Supply voltage limits	323528 V
Supply frequency	5060 Hz (- 55 %)
Network frequency limits	47.563 Hz
Speed range	150for synchronous motor in open-loop mode, without speed feedback11000 asynchronous motor in closed-loop mode with encoder feedback1100 asynchronous motor in open-loop mode, without speed feedback
Speed accuracy	+/- 10 % of nominal slip 0.2 Tn to Tn torque variation without speed feedback +/- 0.01 % of nominal speed 0.2 Tn to Tn torque variation in closed-loop mode with encoder feedback
Torque accuracy	+/- 5 % in closed-loop mode with encoder feedback +/- 15 % in open-loop mode, without speed feedback
Transient overtorque	220 % of nominal motor torque +/- 10 %for 2 s 170 % of nominal motor torque +/- 10 %for 60 s every 10 minutes
Braking torque	30 % without braking resistor < 150 % with braking or hoist resistor
Synchronous motor control profile	Vector control without speed feedback
Regulation loop	Adjustable PI regulator
Motor slip compensation	Adjustable Automatic whatever the load Not available in voltage/frequency ratio (2 or 5 points) Suppressable
Local signalling	1 LED red presence of drive voltage
Output voltage	<= power supply voltage
Insulation	Electrical between power and control
Type of cable	Without mounting kit: 1-strand IEC cableat 113 °F (45 °C), copper 90 °C XLPE/EPR Without mounting kit: 1-strand IEC cableat 113 °F (45 °C), copper 70 °C PVC With an IP21 or an IP31 kit: 3-strand IEC cableat 104 °F (40 °C), copper 70 °C PVC With a NEMA Type1 kit: 3-strand UL 508 cableat 104 °F (40 °C), copper 75 °C PVC
Electrical connection	U/T1, V/T2, W/T3 terminal 4 x 185 mm² R/L1.1, S/L2.1, T/L3.1, R/L1.2, S/L2.2, T/L3.2 terminal 2 x 2 x 185 mm² PC/-, PA/+ terminal 8 x 185 mm² AI1-/AI1+, AI2, AO1, R1A, R1B, R1C, R2A, R2B, LI1LI6, PWR terminal 2.5 mm² / AWG 14
Tightening torque	U/T1, V/T2, W/T3 362.83 lbf.in (41 N.m) R/L1.1, S/L2.1, T/L3.1, R/L1.2, S/L2.2, T/L3.2 362.83 lbf.in (41 N.m) PC/-, PA/+ 362.83 lbf.in (41 N.m) Al1-/Al1+, Al2, AO1, R1A, R1B, R1C, R2A, R2B, Ll1Ll6, PWR 5.31 lbf.in (0.6 N.m)
Supply	Internal supply, 24 V DC, voltage limits 2127 V, <= 200 mAfor overload and short-circuit protection Internal supply for reference potentiometer (1 to 10 kOhm), 10.5 V DC +/- 5 %, <= 10 mAfor overload and short-circuit protection
Analogue input number	2
Analogue input type	Al2 software-configurable voltage 010 V DC, input voltage 24 V max, impedance 30000 Ohm, resolution 11 bits Al2 software-configurable current 020 mA, impedance 242 Ohm, resolution 11 bits Al1-/Al1+ bipolar differential voltage +/- 10 V DC, input voltage 24 V max, resolution 11 bits + sign
Sampling duration	LI6 (if configured as logic input) 2 ms, +/- 0.5 ms discrete input(s) LI1LI5 2 ms, +/- 0.5 ms discrete input(s) AI2 2 ms, +/- 0.5 ms analog input(s) AI1-/AI1+ 2 ms, +/- 0.5 ms analog input(s)
Response time	R2A, R2B 7 ms, tolerance +/- 0.5 ms discrete output(s) R1A, R1B, R1C 7 ms, tolerance +/- 0.5 ms discrete output(s) AO1 2 ms, tolerance +/- 0.5 ms analog output(s) <= 100 ms in STO (Safe Torque Off)
Accuracy	AO1 +/- 1 % for a temperature variation 60 °C Al2 +/- 0.6 % for a temperature variation 60 °C Al1-/Al1+ +/- 0.6 % for a temperature variation 60 °C



Linearity error	AO1 +/- 0.2 % AI1-/AI1+, AI2 +/- 0.15 % of maximum value
Analogue output number	1
Analogue output type	AO1 software-configurable voltage 010 V DC, impedance 470 Ohm, resolution 10 bits AO1 software-configurable current 020 mA, impedance 500 Ohm, resolution 10 bits
Discrete output number	AO1 software-configurable logic output 10 V <= 20 mA 2
Discrete output number Discrete output type	R2A, R2B configurable relay logic NO, electrical durability 100000 cycles R1A, R1B, R1C configurable relay logic NO/NC, electrical durability 100000 cycles
Minimum switching current	Configurable relay logic 3 mAat 24 V DC
Maximum switching current	R1, R2 on resistive load, 5 Aat 30 V DC, cos phi = 1, R1, R2 on resistive load, 5 Aat 250 V AC, cos phi = 1, R1, R2 on inductive load, 2 Aat 30 V DC, cos phi = 0.4, R1, R2 on inductive load, 2 Aat 250 V AC, cos phi = 0.4,
Discrete input number	7
Discrete input type	PWR: safety input 24 V DC, impedance: 1500 Ohm conforming to ISO 13849-1 level d LI6: switch-configurable PTC probe 06, impedance: 1500 Ohm LI6: switch-configurable 24 V DC with level 1 PLC, impedance: 3500 Ohm LI1LI5: programmable 24 V DC with level 1 PLC, impedance: 3500 Ohm
Discrete input logic	LI6 (if configured as logic input) positive logic (source), < 5 V (state 0), > 11 V (state 0) LI6 (if configured as logic input) negative logic (sink), > 16 V (state 0), < 10 V (state 0) LI1LI5 positive logic (source), < 5 V (state 0), > 11 V (state 0) LI1LI5 negative logic (sink), > 16 V (state 0), < 10 V (state 0)
Acceleration and deceleration ramps	Automatic adaptation of ramp if braking capacity exceeded, by using resistor Linear adjustable separately from 0.01 to 9000 s S, U or customized
Braking to standstill	By DC injection
Protection type	Motor thermal protection Motor power removal Motor motor phase break Drive thermal protection Drive short-circuit between motor phases Drive overvoltages on the DC bus Drive overheating protection Drive overcurrent between output phases and earth Drive line supply undervoltage Drive line supply overvoltage Drive input phase breaks Drive break on the control circuit Drive against input phase loss Drive against exceeding limit speed
Insulation resistance	> 1 mOhm at 500 V DC for 1 minute to earth
Frequency resolution	Display unit 0.1 Hz Analog input 0.024/50 Hz
Communication port protocol	CANopen Modbus
Type of connector	Male SUB-D 9 on RJ45 CANopen 1 RJ45 Modbus on terminal 1 RJ45 Modbus on front face
Physical interface	2-wire RS 485 Modbus
Transmission frame	RTU Modbus
Transmission rate	20 kbps, 50 kbps, 125 kbps, 250 kbps, 500 kbps, 1 Mbps CANopen 9600 bps, 19200 bps Modbus on front face 4800 bps, 9600 bps, 19200 bps, 38.4 Kbps Modbus on terminal
Data format	8 bits, odd even or no configurable parity Modbus on terminal 8 bits, 1 stop, even parity Modbus on front face
Number of addresses	1247 Modbus 1127 for CANopen
Method of access	Slave CANopen
Marking	CE
Operating position	Vertical +/- 10 degree
Height	54.72 in (1390 mm)
Depth	14.84 in (377 mm)



35.04 in (890 mm)	
496.04 lb(US) (225 kg)	
Full	
Other applications	
Profibus DP V1 communication card	
Profibus DP communication card	
Overhead crane card	
Modbus/Uni-Telway communication card	
Modbus TCP communication card	
Modbus Plus communication card	
Interface card for encoder	
Interbus-S communication card	
I/O extension card	
Fipio communication card	
Ethernet/IP communication card	
DeviceNet communication card	
Controller inside programmable card	
CC-Link communication card	
	496.04 lb(US) (225 kg) Full Other applications Profibus DP V1 communication card Profibus DP communication card Overhead crane card Modbus/Uni-Telway communication card Modbus TCP communication card Modbus Plus communication card Interface card for encoder Interbus-S communication card I/O extension card Fipio communication card Ethernet/IP communication card DeviceNet communication card Controller inside programmable card

Environment

Noise level	77 dB conforming to 86/188/EEC
Dielectric strength	5092 V DC between control and power terminals 3535 V DC between earth and power terminals
Electromagnetic compatibility	Voltage dips and interruptions immunity test conforming to IEC 61000-4-11 Radiated radio-frequency electromagnetic field immunity test conforming to IEC 61000-4-3 level 3 Electrostatic discharge immunity test conforming to IEC 61000-4-2 level 3 Electrical fast transient/burst immunity test conforming to IEC 61000-4-4 level 4 Conducted radio-frequency immunity test conforming to IEC 61000-4-6 level 3 1.2/50 µs - 8/20 µs surge immunity test conforming to IEC 61000-4-5 level 3
Standards	EN 55011 class A group 2 EN 61800-3 environments 1 category C3 EN 61800-3 environments 2 category C3 EN/IEC 61800-3 EN/IEC 61800-5-1 IEC 60721-3-3 class 3C2 UL Type 1
Product certifications	CSA C-Tick GOST NOM 117 UL
Pollution degree	3 conforming to UL 840 2 conforming to EN/IEC 61800-5-1
IP degree of protection	IP20
Vibration resistance	1.5 mm peak to peak (f = 310 Hz) conforming to EN/IEC 60068-2-6 0.6 gn (f = 10200 Hz) conforming to EN/IEC 60068-2-6
Shock resistance	4 gn 11 ms conforming to EN/IEC 60068-2-27
Relative humidity	595 % without dripping water conforming to IEC 60068-2-3 595 % without condensation conforming to IEC 60068-2-3
Ambient air temperature for operation	14122 °F (-1050 °C) without derating
Ambient air temperature for storage	-13158 °F (-2570 °C)
Operating altitude	3280.849842.52 ft (10003000 m) with current derating 1 % per 100 m <= 3280.84 ft (1000 m) without derating

Ordering and shipping details

Category	22134 - ATV71 500 THRU 700 HP DRIVES
Discount Schedule	CP4C
GTIN	00785901448051
Nbr. of units in pkg.	1
Product availability	Stock - Normally stocked in distribution facility

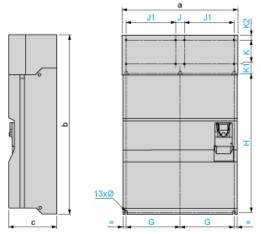


Returnability	N
Country of origin	IN
Offer Sustainability	
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1002 - Schneider Electric declaration of conformity
REACh	Reference contains SVHC above the threshold - 🗗 go to CaP for more details
Product environmental profile	Available Download Product Environmental Profile
Product end of life instructions	Available Download End Of Life Manual
Contractual warranty	
Warranty period	18 months



UL Type 1/IP 20 Drives

Dimensions with or without 1 Option Card (1)



Dimensions in mm

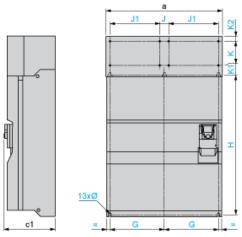
а	b	С	G	J	J1	Н	K	K1	K2	Ø
890	1390	377	417.5	75	380	1120	150	75	30	11.5

Dimensions in in.

а	b	С	G	J	J1	Н	K	K1	K2	Ø
35.04	54.72	14.84	16.44	2.95	14.96	44.09	5.90	2.95	1.18	0.45

⁽¹⁾ Option cards: I/O extension cards, communication cards or "Controller Inside" programmable card.

Dimensions with 2 Option Cards (1)



Dimensions in mm

а	c1	G	J	J1	Н	K	K1	K2	Ø
890	392	417.5	75	380	1120	150	75	30	11.5

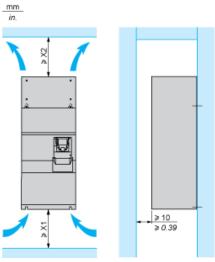
Dimensions in in.

	c1	G	J	J1	Н	K	K1	K2	Ø
35.04	15.43	16.44	2.95	14.96	44.09	5.90	2.95	1.18	0.45

(1) Option cards: I/O extension cards, communication cards or "Controller Inside" programmable card.

Mounting Recommendations

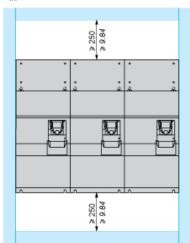
Clearance

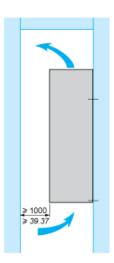


X1 in mm	X2 in mm	X1 in in.	X2 in in.
250	300	9.84	11.81

These drives can be mounted side by side, observing the following mounting recommendations:





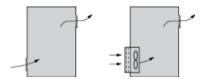


Specific Recommendations for Mounting the Drive in an Enclosure

Ventilation

To ensure proper air circulation in the drive:

- Fit ventilation grilles.
- Ensure that there is sufficient ventilation. If there is not, install a forced ventilation unit with a filter. The openings and/or fans must provide a
 flow rate at least equal to that of the drive fans (refer to the product characteristics).



- Use special filters with IP 54 protection.
- Remove the blanking cover from the top of the drive.

Dust and Damp Proof Metal Enclosure (IP 54)

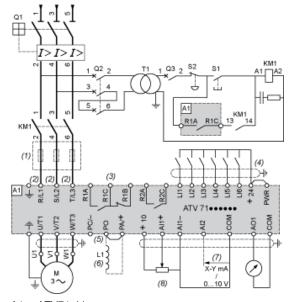
The drive must be mounted in a dust and damp proof enclosure in certain environmental conditions: dust, corrosive gases, high humidity with risk of condensation and dripping water, splashing liquid, etc.

This enables the drive to be used in an enclosure where the maximum internal temperature reaches 50°C.



Wiring Diagram Conforming to Standards EN 954-1 Category 1, IEC/EN 61508 Capacity SIL1, in Stopping Category 0 According to IEC/EN 60204-1

Three-Phase Power Supply with Upstream Breaking via Contactor



A1 ATV71 drive

KM1 Contactor

L1 DC choke

Q1 Circuit-breaker

Q2 GV2 L rated at twice the nominal primary current of T1

Q3 GB2CB05

S1, XB4 B or XB5 A pushbuttons

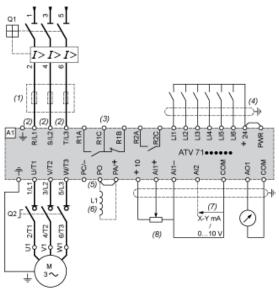
S2

- T1 100 VA transformer 220 V secondary
- (1) Line choke (three-phase); mandatory for ATV71HC11Y...HC63Y drives (except when a special transformer is used (12-pulse)).
- (2) For ATV71HC40N4 drives combined with a 400 kW motor, ATV71HC50N4 and ATV71HC40Y...HC63Y, refer to the power terminal connections diagram.
- (3) Fault relay contacts. Used for remote signalling of the drive status.
- (4) Connection of the common for the logic inputs depends on the positioning of the SW1 switch. The above diagram shows the internal power supply switched to the "source" position (for other connection types, refer to the user guide).
- (5) There is no PO terminal on ATV71HC11Y...HC63Y drives.
- (6) Optional DC choke for ATV71H•••M3, ATV71HD11M3X...HD45M3X, ATV71•075N4...•D75N4 and ATV71P•••N4Z drives. Connected in place of the strap between the PO and PA/+ terminals. For ATV71HD55M3X, HD75M3X, ATV71HD90N4...HC50N4 drives, the choke is supplied with the drive; the customer is responsible for connecting it.
- (7) Software-configurable current (0...20 mA) or voltage (0...10 V) analog input.
- (8) Reference potentiometer.

All terminals are located at the bottom of the drive. Fit interference suppressors on all inductive circuits near the drive or connected on the same circuit, such as relays, contactors, solenoid valves, fluorescent lighting, etc.

Wiring Diagram Conforming to Standards EN 954-1 Category 1, IEC/EN 61508 Capacity SIL1, in Stopping Category 0 According to IEC/EN 60204-1

Three-Phase Power Supply with Downstream Breaking via Switch Disconnector

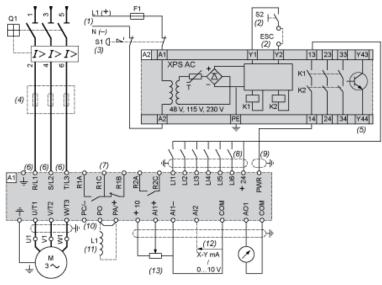


- A1 ATV71 drive
- L1 DC choke
- Q1 Circuit-breaker
- Q2 Switch disconnector (Vario)
- (1) Line choke (three-phase), mandatory for ATV71HC11Y...HC63Y drives (except when a special transformer is used (12-pulse)).
- (2) For ATV71HC40N4 drives combined with a 400 kW motor, ATV71HC50N4 and ATV71HC40Y...HC63Y, refer to the power terminal connections diagram.
- (3) Fault relay contacts. Used for remote signalling of the drive status.
- (4) Connection of the common for the logic inputs depends on the positioning of the SW1 switch. The above diagram shows the internal power supply switched to the "source" position (for other connection types, refer to the user guide).
- (5) There is no PO terminal on ATV71HC11Y...HC63Y drives.
- (6) Optional DC choke for ATV71H•••M3, ATV71HD11M3X...HD45M3X, ATV71•075N4...•D75N4 and ATV71P•••N4Z drives. Connected in place of the strap between the PO and PA/+ terminals. For ATV71HD55M3X, HD75M3X, ATV71HD90N4...HC50N4 drives, the choke is supplied with the drive; the customer is responsible for connecting it.
- (7) Software-configurable current (0...20 mA) or voltage (0...10 V) analog input.
- (8) Reference potentiometer.

All terminals are located at the bottom of the drive. Fit interference suppressors on all inductive circuits near the drive or connected on the same circuit, such as relays, contactors, solenoid valves, fluorescent lighting, etc.

Wiring Diagram Conforming to Standards EN 954-1 Category 3, IEC/EN 61508 Capacity SIL2, in Stopping Category 0 According to IEC/EN 60204-1

Three-Phase Power Supply, Low Inertia Machine, Vertical Movement

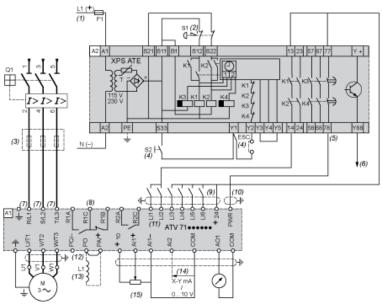


- A1 ATV71 drive
- A2 Preventa XPS AC safety module for monitoring emergency stops and switches. One safety module can manage the "Power Removal" function for several drives on the same machine. In this case, each drive must connect its PWR terminal to its + 24 V via the safety contacts on the XPS AC module. These contacts are independent for each drive.
- F1 Fuse
- L1 DC choke
- Q1 Circuit-breaker
- S1 Emergency stop button with 2 contacts
- S2 XB4 B or XB5 A pushbutton
- (1) Power supply: 24 Vdc or Vac, 48 Vac, 115 Vac, 230 Vac.
- (2) S2: resets XPS AC module on power-up or after an emergency stop. ESC can be used to set external starting conditions.
- (3) Requests freewheel stopping of the movement and activates the "Power Removal" safety function.
- (4) Line choke (three-phase), mandatory for and ATV71HC11Y...HC63Y drives (except when a special transformer is used (12-pulse)).
- (5) The logic output can be used to signal that the machine is in a safe stop state.
- (6) For ATV71HC40N4 drives combined with a 400 kW motor, ATV71HC50N4 and ATV71HC40Y...HC63Y, refer to the power terminal connections diagram.
- (7) Fault relay contacts. Used for remote signalling of the drive status.
- (8) Connection of the common for the logic inputs depends on the positioning of the SW1 switch. The above diagram shows the internal power supply switched to the "source" position (for other connection types, refer to the user guide).
- (9) Standardized coaxial cable, type RG174/U according to MIL-C17 or KX3B according to NF C 93-550, external diameter 2.54 mm /0.09 in., maximum length 15 m / 49.21 ft. The cable shielding must be earthed.
- (10) There is no PO terminal on ATV71HC11Y...HC63Y drives.
- (11) Optional DC choke for ATV71H•••M3, ATV71HD11M3X...HD45M3X, ATV71•075N4...•D75N4 and ATV71P•••N4Z drives. Connected in place of the strap between the PO and PA/+ terminals. For ATV71HD55M3X, HD75M3X, ATV71HD90N4...HC50N4 drives, the choke is supplied with the drive; the customer is responsible for connecting it.
- (12) Software-configurable current (0...20 mA) or voltage (0...10 V) analog input.
- (13) Reference potentiometer.

All terminals are located at the bottom of the drive. Fit interference suppressors on all inductive circuits near the drive or connected on the same circuit, such as relays, contactors, solenoid valves, fluorescent lighting, etc.

Wiring Diagram Conforming to Standards EN 954-1 Category 3, IEC/EN 61508 Capacity SIL2, in Stopping Category 1 According to IEC/EN 60204-1

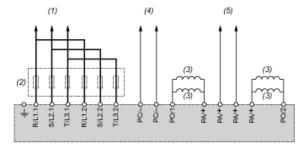
Three-Phase Power Supply, High Inertia Machine



- A1 ATV71 drive
- A2 Preventa XPS ATE safety module for monitoring emergency stops and switches. One safety module can manage the "Power Removal"
- (5) safety function for several drives on the same machine. In this case the time delay must be adjusted on the drive controlling the motor that requires the longest stopping time. In addition, each drive must connect its PWR terminal to its + 24 V via the safety contacts on the XPS ATE module. These contacts are independent for each drive.
- F1 Fuse
- L1 DC choke
- Q1 Circuit-breaker
- S1 Emergency stop button with 2 N/C contacts
- S2 Run button
- (1) Power supply: 24 Vdc or Vac, 115 Vac, 230 Vac.
- (2) Requests controlled stopping of the movement and activates the "Power Removal" safety function.
- (3) Line choke (three-phase), mandatory for ATV71HC11Y...HC63Y drives (except when a special transformer is used (12-pulse)).
- (4) S2: resets XPS ATE module on power-up or after an emergency stop. ESC can be used to set external starting conditions.
- (5) For stopping times requiring more than 30 seconds in category 1, use a Preventa XPS AV safety module which can provide a maximum time delay of 300 seconds.
- (6) The logic output can be used to signal that the machine is in a safe state.
- (7) For ATV71HC40N4 drives combined with a 400 kW motor, ATV71HC50N4 and ATV71HC40Y...HC63Y, refer to the power terminal connections diagram.
- (8) Fault relay contacts. Used for remote signalling of the drive status.
- (9) Connection of the common for the logic inputs depends on the positioning of the SW1 switch. The above diagram shows the internal power supply switched to the "source" position (for other connection types, refer to the user guide).
- (10) Standardized coaxial cable, type RG174/U according to MIL-C17 or KX3B according to NF C 93-550, external diameter 2.54 mm/0.09 in., maximum length 15 m/49.21 ft. The cable shielding must be earthed.
- (11) Logic inputs LI1 and LI2 must be assigned to the direction of rotation: LI1 in the forward direction and LI2 in the reverse direction.
- (12) There is no PO terminal on ATV71HC11Y...HC63Y drives.
- (13) Optional DC choke for ATV71H•••M3, ATV71HD11M3X...HD45M3X, ATV71•075N4...•D75N4 and ATV71P•••N4Z drives. Connected in place of the strap between the PO and PA/+ terminals. For ATV71HD55M3X, HD75M3X, ATV71HD90N4...HC50N4 drives, the choke is supplied with the drive; the customer is responsible for connecting it.
- (14) Software-configurable current (0...20 mA) or voltage (0...10 V) analog input.
- (15) Reference potentiometer.

All terminals are located at the bottom of the drive. Fit interference suppressors on all inductive circuits near the drive or connected on the same circuit, such as relays, contactors, solenoid valves, fluorescent lighting, etc.

Power Terminal Connections for the Drive Combined with a 400 kW Motor

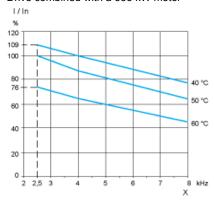


- To circuit-breaker.
- (1) (2) (3) (4) (5) Line chokes, these are mandatory for ATV71HC40Y...HC63Y drives, to be ordered separately. DC chokes supplied as standard with ATV71HC40N4, HC50N4 drives. Not available for ATV71HC40Y...HC63Y.
- To DC bus -To DC bus +

Derating Curves

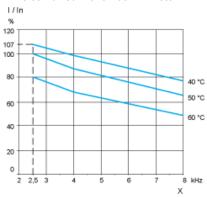
The derating curves for the drive nominal current (In) depend on the temperature and the switching frequency. For intermediate temperatures (e.g. 55°C), interpolate between 2 curves.

Drive combined with a 355 kW motor



X Switching frequency

Drive combined with a 400 kW motor



X Switching frequency